

CLAIMS

- 1 1. A glass block panel system comprising:
 - 2 a framework comprising:
 - 3 an external framework comprising at least one external peripheral
 - 4 frame member comprising a base web portion formed between
 - 5 first and second opposing side arms, wherein at least one of the
 - 6 side arms is removably coupled to the base web portion; and
 - 7 at least one glass block secured in the framework.
- 1 2. The glass block panel system of claim 1, the external peripheral framework member
2 further comprising a mounting fin reversibly coupled to the base web portion.
- 1 3. The glass block panel system of claim 1, the at least one external peripheral framework
2 member further comprising a securing track formed along an internal face of the base
3 web portion.
- 1 4. The glass block panel system of claim 1, the at least one external peripheral framework member
2 further comprising flexible extrusions protruding from tips of the side arms, the
3 extrusions forming tightly adjustable seals between the tips of the side arms and the
4 glass block.

- 1 5. The glass block panel system of claim 1, the at least one glass block further comprising
2 at least two glass blocks secured in the framework, and the framework further
3 comprising an internal framework comprising at least one internal frame spacer abutting
4 and separating the at least two glass blocks.

- 1 6. The glass block panel system of claim 5, the internal frame spacer comprising a spacer
2 web portion formed between opposing facing strips.

- 1 7. The glass block panel system of claim 6, each facing strip further comprising cross
2 arms, the cross arms having flexible extrusions protruding from tips of the cross arms
3 forming tightly adjustable seals between the tips of the cross arms and the glass blocks.

- 1 8. The glass block panel system of claim 6, wherein at least one of the facing strips is
2 removably coupled to the spacer web portion.

- 1 9. The glass block panel system of claim 1, wherein the first side arm is removably
2 coupled to the base web portion and the second side arm is integrally joined to the base
3 web portion.

- 1 10. A glass block panel system comprising:
 - 2 at least two glass blocks secured in a framework; and
 - 3 the framework comprising:
 - 4 an internal framework comprising at least one internal frame spacer
 - 5 abutting and separating the at least two glass blocks, the at least
 - 6 one internal frame spacer comprising a spacer web portion
 - 7 formed between first and second opposing facing strips, each
 - 8 facing strip comprising cross arms, the cross arms having
 - 9 flexible extrusions protruding from tips of the cross arms
 - 10 forming tightly adjustable seals between the tips of the cross
 - 11 arms and the glass blocks.
- 1 11. The glass block panel system of claim 10, wherein at least one of the facing strips is
 - 2 removably coupled to the spacer web portion.
- 1 12. The glass block panel system of claim 11, wherein the first facing strip is removably
 - 2 coupled to the spacer web portion and the second facing strip is integrally joined to the
 - 3 spacer web portion.
- 1 13. The glass block panel system of claim 10 further comprising a securing track formed
 - 2 along at least one opposing face of the spacer web portion.
- 1 14. The glass block panel system of claim 13, the internal frame spacer further comprising a
 - 2 securing tab formed at each opposing latitudinal end of the spacer web portion.

- 1 15. The glass block panel system of claim 10, the framework further comprising an external
2 framework comprising at least one external peripheral frame member.
- 1 16. The glass block panel system of claim 15, the at least one external peripheral frame
2 member comprising a base web portion formed between opposing side arms.
- 1 17. The glass block panel system of claim 16, the at least one external peripheral frame
2 member comprising a mounting fin reversibly coupled to the base web portion.
- 1 18. The glass block panel system of claim 16, the at least one external peripheral frame
2 member further comprising flexible extrusions protruding from tips of the side arms, the
3 extrusions forming tightly adjustable seals between the tips of the side arms and the at
4 least two glass blocks.
- 1 19. The glass block panel system of claim 16, wherein at least one of the side arms is
2 removably coupled to the base web portion.
- 1 20. The glass block panel system of claim 16, the at least one external peripheral frame
2 member further comprising a securing track formed along an internal face of the base
3 web portion.

- 1 21. A method of fabricating a glass block panel system, the method comprising:
 - 2 assembling a framework so that at least a portion of at least one internal
 - 3 compartment is formed;
 - 4 applying an adhesive sealant to the formed portion of the at least one internal
 - 5 compartment;
 - 6 latitudinally inserting at least one glass block into the formed portion of the at
 - 7 least one internal compartment from a front of the glass block panel
 - 8 system; and
 - 9 completing the glass block panel system.
- 1 22. The method of claim 21, wherein assembling a framework comprises assembling a
2 portion of an external framework so that a portion of an internal compartment is
3 formed, wherein applying an adhesive sealant comprises applying an adhesive sealant to
4 the formed portion of the internal compartment, wherein latitudinally inserting at least
5 one glass block comprises latitudinally inserting a glass block into the formed portion of
6 the internal compartment from a front of the glass block panel system, and wherein
7 completing the glass block panel system comprises completing the internal compartment
8 and removably coupling at least one side arm to the external framework, thereby
9 securing the glass block in the internal compartment.

1 23. The method of claim 21, wherein assembling a framework comprises assembling an
2 external framework so that an internal compartment is formed, wherein applying an
3 adhesive sealant comprises applying an adhesive sealant to the internal compartment,
4 wherein latitudinally inserting at least one glass block comprises latitudinally inserting a
5 glass block into the internal compartment from a front of the glass block panel system,
6 and wherein completing the glass block panel system comprises removably coupling
7 four side arms to the external framework, thereby securing the glass block in the
8 internal compartment.

1 24. The method of claim 21, wherein assembling a framework comprises assembling a
2 portion of an external framework and an internal frame spacer so that portions of two
3 internal compartments are formed, wherein applying an adhesive sealant comprises
4 applying an adhesive sealant to the formed portions of the internal compartments,
5 wherein latitudinally inserting at least one glass block comprises latitudinally inserting
6 two glass blocks into the formed portions of the two internal compartments from a front
7 of the glass block panel system, and wherein completing the glass block panel system
8 comprises completing the internal compartments and removably coupling at least one
9 side arm and at least one facing strip to the external framework and the internal frame
10 spacer respectively, thereby securing the glass blocks in the internal compartments.

1 25. The method of claim 21, wherein assembling a framework comprises assembling an
2 external framework and an internal frame spacer so that two internal compartments are
3 formed, wherein applying an adhesive sealant comprises applying an adhesive sealant to
4 the internal compartments, wherein latitudinally inserting at least one glass block
5 comprises latitudinally inserting two glass blocks into the two internal compartments
6 from a front of the glass block panel system, and wherein completing the glass block
7 panel system comprises removably coupling four side arms and a facing strip to the
8 external framework and the internal frame spacer respectively, thereby securing the
9 glass blocks in the internal compartments.

1 26. The method of claim 21, wherein assembling a framework comprises assembling a
2 portion of an external framework and a plurality of internal frame spacers so that
3 portions of a plurality of internal compartments are formed, wherein applying an
4 adhesive sealant comprises applying an adhesive sealant to the formed portions of the
5 internal compartments, wherein latitudinally inserting at least one glass block comprises
6 latitudinally inserting a plurality blocks into the formed portions of the plurality of internal
7 compartments from a front of the glass block panel system, and wherein completing the
8 glass block panel system comprises completing the internal compartments and
9 removably coupling a plurality of side arms and a plurality of facing strips to the external
10 framework and the internal frame spacers respectively, thereby securing the glass
11 blocks in the internal compartments.

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